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FILE 'USPAT2' ENTERED AT 10:33:26 ON 08 SEP 2006
CA INDEXING COPYRIGHT (C) 2006 AMERICAN CHEMICAL SOCIETY (ACS)

CA INDEXING COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

=> s porous polymeric component# and second polymeric component# and interpenetrating network
5 FILES SEARCHED

5 FILES SEARCHED...
3 PAGES

L1 3 POROUS POLYMERIC COMPONENT# AND SECOND POLYMERIC COMPONENT# AND
INTERPENETRATING NETWORK

=> s 11 and shape persistent
L2 3 L1 AND SHAPE PERSISTENT

=> d 12 1-3

L2 ANSWER 1 OF 3 PCTFULL COPYRIGHT 2006 Univentio on STN
AN 2002016463 PCTFULL ED 20020711 EW 200209
TIEN POLYMERS WITH HIGH INTERNAL FREE VOLUME
TIFR POLYMERES A VOLUME INTERIEUR LIBRE IMPORTANT
IN SWAGER, Timothy, M., 18 Copley Street, Newton, MA 02158, US;
LONG, Timothy, M., 72 Brookline Street, Apt. 201, Cambridge, MA 02139,
US;
ZHU, Zhengguo, 2456 Massachusetts Avenue, Apt. 302, Cambridge, MA 02140,
US
PA MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 77 Massachusetts Avenue,
Cambridge, MA 02139, US [US, US]
AG OYER, Timothy, J., Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue,
Boston, MA 02210, US
LAF English
LA English
DT Patent
PI WO 2002016463 A2 20020228
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN

MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW
RW (ARIPO) : GH GM KE LS MW MZ SD SL SZ TZ UG ZW
RW (EAPO) : AM AZ BY KG KZ MD RU TJ TM
RW (EPO) : AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
RW (OAPI) : BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2001-US26293 A 20010821
PRAI US 2000-60/226,506 20000821
ICM C08G061-00

L2 ANSWER 2 OF 3 USPATFULL on STN
AN 2004:221007 USPATFULL
TI Polymers with high internal free volume
IN Swager, Timothy M., Newton, MA, UNITED STATES
Long, Timothy M., Cambridge, MA, UNITED STATES
Zhu, Zhengguo, Cambridge, MA, UNITED STATES
PI US 2004170775 A1 20040902
AI US 2004-764768 A1 20040126 (10)
RLI Continuation of Ser. No. US 2001-935060, filed on 21 Aug 2001, PENDING
PRAI US 2000-226506P 20000821 (60)
DT Utility
FS APPLICATION
LN.CNT 1949
INCL INCLM: 428/001.100
INCLS: 526/280.000; 349/001.000
NCL NCLM: 428/001.100
NCLS: 257/E21.259; 257/E51.049; 349/001.000; 526/280.000
IC [7]
ICM C08F032-00
IPCI C08F0032-00 [ICM,7]
IPCR C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C08G0061-10 [I,A];
C08G0061-12 [I,A]; C09K0011-06 [I,A]; C09K0011-06 [I,C*];
C09K0019-38 [I,A]; C09K0019-38 [I,C*]; H01B0001-12 [I,A];
H01B0001-12 [I,C*]; H01L0021-02 [I,C*]; H01L0021-312 [I,A];
H01L0051-05 [I,C*]; H01L0051-30 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 3 OF 3 USPATFULL on STN
AN 2002:272580 USPATFULL
TI Polymers with high internal free volume
IN Swager, Timothy M., Newton, MA, UNITED STATES
Long, Timothy M., Cambridge, MA, UNITED STATES
Zhu, Zhengguo, Cambridge, MA, UNITED STATES
PI US 2002150697 A1 20021017
US 6783814 B2 20040831
AI US 2001-935060 A1 20010821 (9)
PRAI US 2000-226506P 20000821 (60)
DT Utility
FS APPLICATION
LN.CNT 1943
INCL INCLM: 428/001.100
INCLS: 252/299.010; 252/299.620; 252/299.100; 430/020.000
NCL NCLM: 428/011.000; 428/001.100
NCLS: 252/299.400; 257/E21.259; 257/E51.049; 349/001.000; 525/063.000;
252/299.010; 252/299.100; 252/299.620; 430/020.000
IC [7]
ICM C09K019-38
ICS C09K019-32; G02F001-03; C09K019-52
IPCI C09K0019-38 [ICM,7]; C09K0019-32 [ICS,7]; G02F0001-03 [ICS,7];
G02F0001-01 [ICS,7,C*]; C09K0019-52 [ICS,7]
IPCI-2 A47G0033-04 [ICM,7]; A47G0033-00 [ICM,7,C*]; C09K0019-38 [ICS,7];
C09K0019-32 [ICS,7]; C09K0019-52 [ICS,7]
IPCR C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C08G0061-10 [I,A];
C08G0061-12 [I,A]; C09K0011-06 [I,A]; C09K0011-06 [I,C*];

C09K0019-38 [I,A]; C09K0019-38 [I,C*]; H01B0001-12 [I,A];
H01B0001-12 [I,C*]; H01L0021-02 [I,C*]; H01L0021-312 [I,A];
H01L0051-05 [I,C*]; H01L0051-30 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> s ladder polymer# and iptycene
L3 17 LADDER POLYMER# AND IPTYcene

=> s 13 and backbone and breaking at least two bond#
L4 0 L3 AND BACKBONE AND BREAKING AT LEAST TWO BOND#

=> s 13 and shape persistent molecule#
L5 7 L3 AND SHAPE PERSISTENT MOLECULE#

=> s 15 and van der waals
4 FILES SEARCHED...
L6 7 L5 AND VAN DER WAALS

=> s 16 and bridgehead#
L7 7 L6 AND BRIDGEHEAD#

=> d 17 1-7

L7 ANSWER 1 OF 7 PCTFULL COPYRIGHT 2006 Univentio on STN
AN 2004007634 PCTFULL ED 20040129 EW 200404
TIEN EMISSIVE, HIGH CHARGE TRANSPORT POLYMERS
TIFR POLYMERES EMISSIFS A TRANSPORT DE CHARGE ELEVE
IN SWAGER, Timothy, M., 18 Copley Street, Newton, MA 02158, US;
ZAHN, Steffan, 112 High Street, Waltham, MA 02453, US
PA MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 77 Massachussets Avenue,
Cambridge, MA 02139, US [US, US]
AG OYER, Timothy, J., Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue,
Boston, MA 02210, US
LAF English
LA English
DT Patent
PI WO 2004007634 A2 20040122
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC SD SE SG SK SL
SY TJ TM TN TR TT TZ UA UG UZ VC VN YU ZA ZM ZW
RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU MC
NL PT RO SE SI SK TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2003-US22702 A 20030715
PRAI US 2002-60/396,028 20020715
ICM C09K009-00

L7 ANSWER 2 OF 7 PCTFULL COPYRIGHT 2006 Univentio on STN
AN 2002016463 PCTFULL ED 20020711 EW 200209
TIEN POLYMERS WITH HIGH INTERNAL FREE VOLUME
TIFR POLYMERES A VOLUME INTERIEUR LIBRE IMPORTANT
IN SWAGER, Timothy, M., 18 Copley Street, Newton, MA 02158, US;
LONG, Timothy, M., 72 Brookline Street, Apt. 201, Cambridge, MA 02139,
US;
ZHU, Zhengguo, 2456 Massachusetts Avenue, Apt. 302, Cambridge, MA 02140,
US
PA MASSACHUSETTS INSTITUTE OF TECHNOLOGY, 77 Massachusetts Avenue,
Cambridge, MA 02139, US [US, US]
AG OYER, Timothy, J., Wolf, Greenfield & Sacks, P.C., 600 Atlantic Avenue,

Boston, MA 02210, US
LAF English
LA English
DT Patent
PI WO 2002016463 A2 20020228
DS W: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU
CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN
MW MX MZ NO NZ PH PL PT RO RU SD SE SG SI SK SL TJ TM TR
TT TZ UA UG UZ VN YU ZA ZW
RW (ARIPO): GH GM KE LS MW MZ SD SL SZ TZ UG ZW
RW (EAPO): AM AZ BY KG KZ MD RU TJ TM
RW (EPO): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
RW (OAPI): BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG
AI WO 2001-US26293 A 20010821
PRAI US 2000-60/226,506 20000821
ICM C08G061-00

L7 ANSWER 3 OF 7 USPATFULL on STN
AN 2004:221007 USPATFULL
TI Polymers with high internal free volume
IN Swager, Timothy M., Newton, MA, UNITED STATES
Long, Timothy M., Cambridge, MA, UNITED STATES
Zhu, Zhengguo, Cambridge, MA, UNITED STATES
PI US 2004170775 A1 20040902
AI US 2004-764768 A1 20040126 (10)
RLI Continuation of Ser. No. US 2001-935060, filed on 21 Aug 2001, PENDING
PRAI US 2000-226506P 20000821 (60)
DT Utility
FS APPLICATION
LN.CNT 1949
INCL INCLM: 428/001.100
INCLS: 526/280.000; 349/001.000
NCL NCLM: 428/001.100
NCLS: 257/E21.259; 257/E51.049; 349/001.000; 526/280.000
IC [7]
ICM C08F032-00
IPCI C08F0032-00 [ICM, 7]
IPCR C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C08G0061-10 [I,A];
C08G0061-12 [I,A]; C09K0011-06 [I,A]; C09K0011-06 [I,C*];
C09K0019-38 [I,A]; C09K0019-38 [I,C*]; H01B0001-12 [I,A];
H01B0001-12 [I,C*]; H01L0021-02 [I,C*]; H01L0021-312 [I,A];
H01L0051-05 [I,C*]; H01L0051-30 [I,A]
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 4 OF 7 USPATFULL on STN
AN 2004:152428 USPATFULL
TI Emissive, high charge transport polymers
IN Swager, Timothy M., Newton, MA, UNITED STATES
Zahn, Steffen, Pennsburg, PA, UNITED STATES
PI US 2004116650 A1 20040617
US 7041910 B2 20060509
AI US 2003-621041 A1 20030715 (10)
PRAI US 2002-396028P 20020715 (60)
DT Utility
FS APPLICATION
LN.CNT 1620
INCL INCLM: 528/396.000
INCLS: 204/400.000
NCL NCLM: 528/396.000
NCLS: 252/299.400; 252/582.000; 257/E21.259; 257/E51.028; 257/E51.036;
257/E51.049; 349/001.000; 428/011.000; 525/063.000; 204/400.000
IC [7]
ICM C08G061-00

ICS G01N027-26
IPCI C08G0061-00 [ICM,7]; G01N0027-26 [ICS,7]
IPCI-2 H01B0007-00 [I,A]
IPCR C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C09K0011-06 [I,A];
C09K0011-06 [I,C*]; H01L0051-05 [I,C*]; H01L0051-30 [I,A];
H01L0051-50 [N,A]; H01L0051-50 [N,C*]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 5 OF 7 USPATFULL on STN
AN 2002:272580 USPATFULL
TI Polymers with high internal free volume
IN Swager, Timothy M., Newton, MA, UNITED STATES
Long, Timothy M., Cambridge, MA, UNITED STATES
Zhu, Zhengguo, Cambridge, MA, UNITED STATES
PI US 2002150697 A1 20021017
US 6783814 B2 20040831
AI US 2001-935060 A1 20010821 (9)
PRAI US 2000-226506P 20000821 (60)
DT Utility
FS APPLICATION
LN.CNT 1943
INCL INCLM: 428/001.100
INCLS: 252/299.010; 252/299.620; 252/299.100; 430/020.000
NCL NCLM: 428/011.000; 428/001.100
NCLS: 252/299.400; 257/E21.259; 257/E51.049; 349/001.000; 525/063.000;
252/299.010; 252/299.100; 252/299.620; 430/020.000
IC [7]
ICM C09K019-38
ICS C09K019-32; G02F001-03; C09K019-52
IPCI C09K019-38 [ICM,7]; C09K019-32 [ICS,7]; G02F0001-03 [ICS,7];
G02F0001-01 [ICS,7,C*]; C09K019-52 [ICS,7]
IPCI-2 A47G0033-04 [ICM,7]; A47G0033-00 [ICM,7,C*]; C09K019-38 [ICS,7];
C09K019-32 [ICS,7]; C09K019-52 [ICS,7]
IPCR C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C08G0061-10 [I,A];
C08G0061-12 [I,A]; C09K0011-06 [I,A]; C09K0011-06 [I,C*];
C09K0019-38 [I,A]; C09K0019-38 [I,C*]; H01B0001-12 [I,A];
H01B0001-12 [I,C*]; H01L0021-02 [I,C*]; H01L0021-312 [I,A];
H01L0051-05 [I,C*]; H01L0051-30 [I,A]

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 6 OF 7 USPAT2 on STN
AN 2004:152428 USPAT2
TI Emissive, high charge transport polymers
IN Swager, Timothy M., Newton, MA, UNITED STATES
Zahn, Steffen, Pennsburg, PA, UNITED STATES
PA Massachusetts Institute of Technology, Cambridge, MA, UNITED STATES
(U.S. corporation)
PI US 7041910 B2 20060509
AI US 2003-621041 20030715 (10)
PRAI US 2002-396028P 20020715 (60)
DT Utility
FS GRANTED
LN.CNT 1793
INCL INCLM: 174/110.000
INCLS: 252/299.400; 252/582.000; 257/E21.259; 349/001.000; 428/011.000;
525/063.000
NCL NCLM: 528/396.000
NCLS: 252/299.400; 252/582.000; 257/E21.259; 257/E51.028; 257/E51.036;
257/E51.049; 349/001.000; 428/011.000; 525/063.000; 204/400.000
IC IPCI C08G0061-00 [ICM,7]; G01N0027-26 [ICS,7]
IPCI-2 H01B0007-00 [I,A]
IPCR C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C09K0011-06 [I,A];
C09K0011-06 [I,C*]; H01L0051-05 [I,C*]; H01L0051-30 [I,A];
H01L0051-50 [N,A]; H01L0051-50 [N,C*]

EXF 174/110; 252/582; 252/299.4; 428/11; 257/E21.259; 349/1; 525/63
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L7 ANSWER 7 OF 7 USPAT2 on STN
AN 2002:272580 USPAT2
TI Polymers with high internal free volume
IN Swager, Timothy M., Newton, MA, United States
Long, Timothy M., Cambridge, MA, United States
Zhu, Zhengguo, Cambridge, MA, United States
PA Massachusetts Institute of Technology, Cambridge, MA, United States
(U.S. corporation)
PI US 6783814 B2 20040831
AI US 2001-935060 20010821 (9)
PRAI US 2000-226506P 20000821 (60)
DT Utility
FS GRANTED
LN.CNT 1956
INCL INCLM: 428/011.000
INCLS: 428/001.000; 525/063.000; 252/299.400; 349/001.000
NCL NCLM: 428/011.000; 428/001.100
NCLS: 252/299.400; 257/E21.259; 257/E51.049; 349/001.000; 525/063.000;
252/299.010; 252/299.100; 252/299.620; 430/020.000
IC [7]
ICM A47G033-04
ICS C09K019-38; C09K019-32; C09K019-52
IPCI C09K0019-38 [ICM,7]; C09K0019-32 [ICS,7]; G02F0001-03 [ICS,7];
G02F0001-01 [ICS,7,C*]; C09K0019-52 [ICS,7]
IPCI-2 A47G0033-04 [ICM,7]; A47G0033-00 [ICM,7,C*]; C09K0019-38 [ICS,7];
C09K0019-32 [ICS,7]; C09K0019-52 [ICS,7]
IPCR C08G0061-00 [I,C*]; C08G0061-02 [I,A]; C08G0061-10 [I,A];
C08G0061-12 [I,A]; C09K0011-06 [I,A]; C09K0011-06 [I,C*];
C09K0019-38 [I,A]; C09K0019-38 [I,C*]; H01B0001-12 [I,A];
H01B0001-12 [I,C*]; H01L0021-02 [I,C*]; H01L0021-312 [I,A];
H01L0051-05 [I,C*]; H01L0051-30 [I,A]
EXF 428/11; 428/1; 525/63; 252/299.01; 349/1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

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